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APPLICATION NO. FIRST NAMED INVENTOR FILING DATE ATTORNEY DOCKET NO. CONFIRMATION NO. 10/774,412 02/10/2004 Hitoshi Miyano 25-262 9894 **EXAMINER** 7590 06/27/2005 Arnold International SUGARMAN, SCOTT J P.O. BOX 129 ART UNIT PAPER NUMBER Great Falls, VA 22066 2873

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				A
		Application No.	Applicant(s)	
		10/774,412	MIYANO	
	Office Action Summary	Examiner	Art Unit	
		Scott J. Sugarman	2873	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the d	correspondence ac	ldress
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this c (D) (35 U.S.C. § 133).	
Status		is .		
1)	Responsive to communication(s) filed on			
2a)□	· · · · · · · · · · · · · · · · · · ·	action is non-final.		
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposit	ion of Claims			
4)🖂	Display Claim(s) <u>1-16</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)□	5)☐ Claim(s) is/are allowed. 6)☒ Claim(s) <u>1-16</u> is/are rejected.			
6)⊠				
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9)☐ The specification is objected to by the Examiner.				
10)🖂	10)⊠ The drawing(s) filed on 10 February 2004 is/are: a)⊠ accepted or b)□ objected to by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.
Priority ι	under 35 U.S.C. § 119	•		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 				
* See the attached detailed Office action for a list of the certified copies not received.				
Attachmen	• •	_		
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary		
3) 🔯 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 2-10-04.	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:		D-152)

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujii (JP 2003029142A). Fujii teaches (in Embodiment 1; Fig. 1) an endoscope objective having a three-group, three-lens construction having, in order from the object side, a first lens element of negative refractive power and either a meniscus or plano-concave shape with its concave surface on the image side; a stop; a second lens element of positive refractive power and a plano-convex shape with its convex surface on the image side; and a third lens element of positive refractive power and a plano-convex shape with its convex surface on the object side. In Fujii, (col. 4, lines 28-39), the first condition of |f1 / f| is 2.03 which is between the claimed values of 2.00 and 3.00. In Fujii, (col. 4, lines 28-39), the second condition of |f1 / D2| is 5.88 which is between the claimed values of 2.50 and 7.5. In Fujii, (col. 4, lines 28-39), the third condition of |D3 / R4| is

0.91 which is less than 1.00. The index of the first lens element is greater than 1.8 (1.883).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii. Fujii teach the recited structure and numerical limitation as recited above. However, Fujii does not specifically teach that the lens elements can be made by a molding process or a grinding process. Since these are the generally the only way lenses are made (by molding or grinding), it would have been obvious to one of ordinary skill in the art to make the lenses of Fujii by molding or grinding.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Michaels (US 6,038,079) is cited to show an objective system for an endoscope having the claimed structure in Embodiments 8, 9 and 11 (Figs. 8, 9 and 11). In Michaels, the index of refraction for sapphire that was used in the calculations was 1.76. However, Michaels does not meet all of the conditions as recited in claim 1.

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Nagaoka (US 6,256,155), Kikuchi (US 5,359,456) and Igarashi (US 5,119,238) are all

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cited to show some similar structure utilized in endoscope objectives.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Scott J. Sugarman whose telephone number is

(571)272-2340.

The fax phone number for the organization where this application or proceeding

is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Sis

June 23, 2005